

## An Object-Based Image Resizing Approach

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**Abstract :** Common methods for resizing image size include scaling and cropping. However, these two approaches have some quality problems for reduced images. In this paper, we propose an image resizing algorithm by separating the main objects and the background. First, we extract two feature maps, namely, an enhanced visual saliency map and an improved gradient map from an input image. After that, we integrate these two feature maps to an importance map. Finally, we generate the target image using the importance map. The proposed approach can obtain desired results for a wide range of images.

**Keywords :** energy map, visual saliency, gradient map, seam carving

**Conference Title :** ICISSET 2014 : International Conference on Information Science, Engineering and Technology

**Conference Location :** Singapore, Singapore

**Conference Dates :** July 05-06, 2014